THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

: Doron HANDELMAN

Serial No.

: 10/619,413

Filed

: July 16, 2003

For

: DEVICES AND METHODS FOR ALL-OPTICAL

PROCESSING AND STORAGE

Group Art Unit: Not yet assigned Examiner: Not yet assigned

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent and Trademark Office US Patent and Trademark Office Washington, D.C. 20231

Sir:

In accordance with 37 CFR 1.97, enclosed is a copy of the following PTO Form SB/08A listing references which may be material to the patentability of the present application.

Also enclosed are copies of the references cited. These are being submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

Doron Handelman

Date: September 30, 2003

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Complete if Known Substitute for form 1449A/PTO Application Number 10/619, 413 Filing Date July 16, 2003 INFORMATION DISCLOSURE First Named Inventor Handelman STATEMENT BY APPLICANT Group Art Unit **Examiner Name** (use as many sheets as necessary) Attorney Docket Number of 15

			U.S. PATENT DOCUMEN	its	
Examiners	Cite	U.S. Patent Documen Number Kind Co	de ² Name of Detentes on Applicant	Date of Publication of	Pages, columns, lines, Where Relevant
Initials	No. 1	(if know	of Cited Document	Cited Document MM-DD- YYYY	Passages or Relevant Figures Appear
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Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AS	Mining the optical bandwidth for a terabit per second, Alan Eli Willner, IEEE	
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	AT	Record data-transmission rate reported at ECOC '96, Laser Focus World, November	
	·	1996, pages 40-42	

Examiner	Date
Signature	Considered

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Application Number	10/619, 413
Filing Date	July 16, 2003
First Named Inventor	Handelman
Group Art Unit	
Examiner Name	
Attorney Docket Number	

			U.S. PATENT DOCUMENTS	8	
		U.S. Patent Document			
Examiners Initials	Cite No. 1	Number Kind Code (if known)		Date of Publication of Cited Document MM-DD- YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
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	BG	Multiple wavelengths exploit fiber capacity, Eric J. Lerner, Laser Focus World, July 1997, pages 119-125	
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	BI	Multistage amplifier provides gain across 80 nm, Kristin Lewotsky, Laser Focus World, September 1997, pages 22-24	
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_	ВК	Optical Switches Ease Bandwidth Crunch, EuroPhotonics, Rien Flipse, August/September 1998, pages 44-45	_

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
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	BL	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie A. Weiss, Photonics	
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	BN	Optical switches pursue crossconnect markets, Hassaun Jones-Bey,	
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	BS	Designing Broadband Fiber Optic Communication Systems, Juan F. Lam,	
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
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	BV	Direct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS,	
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		Labourdette et al., IEEE Transactions on Communications, Vol. 42, No. 10,	
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*****	CD	Use of Delegated Tuning and Forwarding in Wavelength Division Multiple Access	
		Networks, Auerbach et al., IEEE Transcations on Communications, Vol. 43, No. 1,	
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
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		Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000,	
		pages 125-143	
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	CJ	Ultra-High-Speed PLL-Type Clock Recovery Circuit Based on All-Optical Gain	
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		46, pages 622-649	

Examiner	D	Date	
Signature	C	Considered	

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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
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	CN	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter	
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	CO	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop	
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		pages 935-937	
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	CQ	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM optical signal with 50 GHz	
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		Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
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	CS	Compact 40 Gbit/s optical demultiplexer using a GaInAsP optical amplifier,	
		Electronics Letters, 25 November 1993, Vol. 29, No. 24, pages 2115-2116	
	CT	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers	
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		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	
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	CY	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical	
		Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18,. No. 2,	
		February 2000, pages 144-153	
	CZ	100-Gbit/s bitwise logic, Hall et al., Optics Letters, Vol. 23, No. 16, August 15, 1998,	
		pages 1271-1273	
	DA	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers,	
		IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
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		Off, Electronic Design, July 10, 2000, pages 28-32	
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		Magazine, February 1994, pages 56-63	

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	DF	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter	
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	DH	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter	
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		Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
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	DN	WDM Local Area Networks, Kazovsky et al., IEEE LTS, May 1992, pages 8-15	
	DO	Fiber-based components meet the needs of next-generation amplifiers, Bourgeois,	
		WDM Solutions, March 2001, pages 67-74	
	DP	Spectral equalization keeps optical signals in line, Ashmead, WDM Solutions,	
		January 2001, pages 32-38	
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	DR	Router Promises Faster Switching, Robinson, Photonics Spectra, August 2001, page 24	
	DS	On a dynamic wavelength assignment algorithm for wavelength routed all-optical networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	,
	DT	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, Photonics Spectra, November 2001, pages 30 - 31	
	DU	On adaptive routing in wavelength-routed networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	·
	DV	A comparative study of distributed protocols for wavelength reservation in WDM optical networks, Debashis Saha, Optical Networks Magazine, January/February 2002, pages 45-52	
	DW	A framework for unified traffic engineering in IP over WDM networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
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1.001	DY	A simple dynamic integrated provisioning/protection scheme in IP over WDM networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
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	FM	Monolithically Integrated 2 x 2 InGaAsP/InP Laser Amplifier Gate Switch Arrays,	
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FU	The New Indelible Memories, Linda Geppert, IEEE Spectrum, March 2003, pages 49	
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FV	Integration of waveguide devices aims to reduce costs, Jeff Hecht, Laser Focus	
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FW	Band architecture improves performance, Marshall et al, Laser Focus World,	
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